Amendment to the Claims:

1-2.   (Cancelled)

3.   (Currently Amended)   ~~An analysis apparatus~~ The method as claimed in claim [[2]] 18, further comprising:
~~means for enrichment of~~ enriching a plasma signal contribution.

4.   ((Currently Amended)   ~~An analysis apparatus~~ The method as claimed in claim [[2]] 18, further comprising:
~~selection means for a selective analysis of~~ selectively analyzing the plasma component.

5.   (Currently Amended)   ~~An analysis apparatus~~ The method as claimed in claim [[2]] 18, further comprising:
~~means for~~ stopping or slowing down [[the]] blood flow in the target region, in particular by pressure squeezing.

6.   (Currently Amended)   [[An]] The analysis apparatus as claimed in claim [[2]] 7,
wherein the image processing unit ~~is adapted for selecting vessel~~ selects areas in the image showing capillary vessels or vessel portions having a diameter below a ~~predetermined~~ 15 μm diameter ~~value by use of~~ using an optical vessel tracking ~~means~~ system.

7.   (Currently Amended)   An analysis apparatus ~~as claimed in claim 2, wherein~~ in particular a spectroscopic analysis apparatus, for blood analysis comprising:
an excitation system for emitting an excitation beam to excite a target region;
a detection system for detecting scattered radiation from the target region generated by the excitation beam and for analyzing the scattered radiation;

a monitoring system for emitting a monitoring beam to image the target region;

[[the]] an image processing unit is adapted for processing the image of the target region and for selecting vessel areas in the image showing capillary vessels or vessel portions having a diameter below a predetermined diameter value and/or including an amount of red blood cells below a predetermined cell amount by use of [[the]] contrast in the image; and

a control unit for controlling the detection system to analyze only scattered radiation from the selected vessel areas and/or for controlling the excitation system to excite only the selected vessel areas or predetermined areas;

wherein only scattered radiation from blood in capillaries having a diameter below a predetermined diameter value and/or including an amount of red blood cells below a predetermined cell amount is analyzed.

8.   (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[2]] 7, wherein:

the image processing unit is adapted for retrieving retrieves at least one of velocity and distance information of red blood cells in the image and intensity information from the scattered radiation; and

wherein the control unit is adapted for controlling controls the detection system by use of said velocity and distance retrieved information.

9-10.   (Cancelled)

11.   (Currently Amended) [[An]] A spectroscopic analysis apparatus as claimed in claim 1, further for blood analysis comprising:

a sample holding system comprising a capillary containing the blood to be analyzed, the capillary having a diameter of 50 μm or less;

an excitation system which emits an excitation beam to excite blood in the capillary, an amount of red blood cells in the blood in the capillary being below a predetermined cell amount;

a detection system which detects scattered radiation from the blood in the capillary generated by the excitation beam and for analyzing the scattered radiation; and

an analysis system which analyzes only scattered radiation from the blood in the capillary.

12.   (Currently Amended) [[An]] The analysis apparatus as claimed in claim 11, wherein said capillary is adapted for moving configured to move along its longitudinal axis and/or along the direction of the incoming excitation beam.

13.   (Currently Amended) [[An]] The analysis apparatus as claimed in claim 11, further comprising:

means for causing a flow of a device that flows the blood through the capillary.

14.   (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 11, wherein said predetermined capillary diameter value is less than 15 μm[[,]] in particular 10 μm.

15.   (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 11, wherein said predetermined blood cell amount is below haematocrit 0.35.

16.   (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 7, further comprising:

a radiation source to emit which emits an output beam; and

an optical separation system to separate which separates the monitoring beam and the excitation beam from the output beam.

17.   (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 7, further comprising:

trigger means for triggering of a device which triggers at least one of the excitation system for time-resolved excitation of the garget region and[[/or]] the detection system for time-resolved excitation of the target region and/or for time-resolved detection of scattered radiation from the target region.

18.   (Currently Amended)   An analysis method, in particular a A spectroscopic analysis method[[,]] for blood analysis on vessels comprising the steps of:

selecting a target region in the upper dermis having red blood cells below a haematocrit value of 0.35;

[[-]]emitting an excitation beam to excite exciting plasma, cell membranes, and blood in capillaries in the a target region,

[[-]]detecting scattered radiation from the target region generated by the excitation beam,

[[-]]analyzing the scattered radiation, wherein only scattered radiation from the blood in the capillaries having a diameter below a predetermined diameter value and/or including an amount of red blood cells below a predetermined cell amount is analyzed 15 µm, the plasma, and the cell membranes in the target region.

19.   (New)   The method as claimed in claim 18, wherein the analysis determines a cholesterol reading.

20.   (New)   The analysis apparatus as claimed in claim 7, wherein the predetermined cell amount is below a haematocrit value of 0.35 or less.